

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. *(currently amended)* A graphical user interface for managing a plurality of system components within a controlled environment, to perform a selected activity, comprising:

a first set of control objects configured for selecting a system component within the controlled environment, wherein,

activation of a control object from said first set denotes said selected system component and populates the user interface with control options,

each control option is associated with a sequence of commands that, if executed, sends instructions to control the operations or functions of said selected system component in accordance with the selected activity;

a second set of control objects displayed concurrently with said control options associated with said selected system component, wherein,

each control object within said second set of control objects is configurable for viewing on the user interface and represents an affiliate system component associated with the selected activity and is capable of providing an input to said selected system component,

activation of a control object from said second set populates the user interface with control options for an affiliate system component associated with the activated control object from the second set,

each control option for said affiliate system component is associated with a sequence of commands that, when executed, sends instructions to control the operations or functions of said affiliate system component in accordance with the selected activity, and

said control options for said affiliate system component are displayed concurrently with said second set of control objects on the user interface; and

a third set of control objects representing one or more affiliate system components, the one or more affiliate system components being capable of providing an input to said selected system component and associated with performing the selected

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activity and capable of being controlled by proxy via a control object from said first set and/or said second set of control objects, and wherein the third set of control objects are configured to be pre-configured by a user to be hidden from display on the user interface, while maintaining the user interface at a constant size regardless of whether the third set of control objects are displayed or hidden from display.

2-4. *(cancelled)*.

5. *(original)* The graphical user interface of claim 1, wherein said first set of control objects represents a plurality of component types within the controlled environment.

6-10. *(cancelled)*.

11. *(original)* The graphical user interface of claim 1, further comprising: device definition means for specifying input or output links or dependencies among one or more affiliate system components and a primary system component, and thereby establishing a chain of system components including said primary system component and said one or more affiliate system components, wherein said primary system component is associated with a primary control object from said first set.

12. *(original)* The graphical user interface of claim 11, wherein activation of said primary control object populates the user interface with control options for executing commands to send instructions to control the operations or functions of said chain of system components.

13. *(currently amended)* A method of managing a plurality of system components within a controlled environment for performing a selected activity, comprising:

presenting, on a user interface, a first set of control objects, each object being associated with one or more system components within the controlled environment;

selecting a system component in response to receiving an activation signal associated with a control object from said first set;

populating said user interface with control options for the selected system component;

associating each control option with a sequence of executable commands that sends instructions to control the operations or functions of the selected system

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component in accordance with the selected activity;

presenting, on said user interface concurrently with said control options associated with said selected system component, a second set of control objects, wherein each control object within said second set of control objects represents an affiliate system component associated with the selected activity and capable of providing an input to the selected system component and capable of being controlled by proxy via a control object from said first set of control objects, and has been configured for viewing on said user interface;

presenting, on said user interface concurrently with said second set of control objects, control options for an affiliate system component in response to activating a control object from said second set;

hiding from display on the user interface one or more affiliate system components that are associated with performing the selected activity, but are pre-configured by a user not to be displayed, while maintaining the user interface at a constant size regardless of whether the one or more affiliate system components are displayed or hidden from display; and

associating each control option for each affiliate system component configured for viewing on the user interface with a sequence of executable commands that sends instructions to control the operations or functions of said affiliate system component configured for viewing on the user interface and said affiliate system components configured by a user not to be displayed on the user interface in accordance with the selected activity and;

associating each control option for each selected system component with a sequence of executable commands that sends instructions to control the operations or functions of the selected system component and/or the affiliate system components configured by a user not to be displayed on the user interface in accordance with the selected activity.

14-18. *(cancelled)*.

19. *(original)* The method of claim 13, wherein said first set of control objects represents a plurality of component types within the controlled environment.

20. *(cancelled)*.

21. *(previously presented)* The method of claim 13, further comprising:
selecting one or more control objects from said first set to designate system components, wherein said system components can operate in either an on or off state; presenting, on said user interface, a switch object that, when activated, executes a global command for the designated system components; and

executing said global command to send instructions to alter the on-off state of the designated system components.

22. *(previously presented)* The method of claim 13, further comprising:
selecting one or more control objects from said first set to designate a component type;

presenting, on said user interface, a switch object that, when activated, executes a global command for one or more system components matching said component type, wherein said system components can operate in either an on or off state; and executing said global command to send instructions to alter the on-off state of said one or more system components matching said component type.

23. *(cancelled)*.

24. *(previously presented)* The method of claim 13, further comprising:
selecting one or more control objects from said first set to designate system components, wherein said system components can operate in either an on or off state;

presenting, on said user interface concurrently with said first set, a switch object that, when activated, executes a global command for the designated system components;

exempting from said global command at least one of one or more specified system components, one or more system components matching a specified component type, and one or more system components positioned within a specified region within the controlled environment; and

executing said global command to send instructions to alter the on-off state of all designated system components except for the exempted one or more system components.

25. *(original)* The method of claim 13, further comprising:
specifying input or output links or dependencies among one or more affiliate system components and a primary system component, and

thereby establishing a chain of system components including said primary system component and said one or more affiliate system components, wherein said primary system component is associated with a primary control object from said first set.

26. *(original)* The method of claim 25, wherein activation of said primary control object populates said user interface with control options for executing commands to send instructions to control the operations or functions of said chain of system components.

27. *(currently amended)* A computer program product comprising a computer useable medium having computer readable program code means embedded in said medium for causing a computer to manage a plurality of system components within a controlled environment to perform a selected activity, comprising:

first computer readable program code means for presenting, on a user interface, a first set of control objects, each object being associated with one or more system components within the controlled environment;

second computer readable program code means for selecting a system component in response to receiving an activation signal associated with a control object from said first set;

third computer readable program code means for populating said user interface with control options for the selected system component;

fourth computer readable program code means for associating each control option with a sequence of executable commands that sends instructions to control the operations or functions of the selected system component in accordance with the selected activity;

fifth computer readable program code means for presenting, on said user interface concurrently with said control options associated with the selected system component, a second set of control objects, wherein each control object within said second set of control objects is configurable for viewing on said user interface and represents an affiliate system component associated with the selected activity and capable of providing an input to the selected system component and capable of being controlled by proxy via a control object from said first set of control objects;

sixth computer readable program code means for presenting, on said user interface concurrently with said second set of control objects, control options for an

affiliate system component in response to activating a control object from said second set;

seventh computer readable program code means for associating each control option for said affiliate system component with a sequence of executable commands that sends instructions to control the operations or functions of said affiliate system component in accordance with the selected activity; and

eighth computer readable program code for hiding from display on the user interface one or more affiliate system components that are associated with performing the selected activity, but are pre-configured by a user not to be displayed, while maintaining the user interface at a constant size regardless of whether the one or more affiliate system components are displayed or hidden from display.

28-32. *(cancelled)*.

33. *(previously presented)* The graphical user interface of claim 1, wherein said second set of control objects represents a plurality of component types within the controlled environment.

34. *(previously presented)* The method of claim 13, wherein said second set of control objects represents a plurality of component types within the controlled environment.

35. *(previously presented)* The method of claim 13, further comprising configuring affiliated system components for viewing as control objects in said second set of control objects, including selecting from all available affiliated system components those affiliated system components that should be displayed on said user interface.

36. *(previously presented)* The method of claim 13, further comprising configuring affiliated system components for viewing as control objects in said second set of control objects, including selecting from all available affiliated system components those affiliated system components that should be hidden from display on said user interface.

37. *(previously presented)* The graphical user interface of claim 1, further comprising means for configuring affiliated system components for viewing as control objects in said second set of control objects by selecting from all available affiliated

system components those affiliated system components that should be displayed on the user interface.

38. *(previously presented)* The graphical user interface of claim 1, further comprising means for configuring affiliated system components for viewing as control objects in said second set of control objects by selecting from all available affiliated system components those affiliated system components that should be hidden from display on the user interface.

39. *(previously presented)* The computer program product of claim 27, further comprising computer readable program code means for configuring affiliated system components for viewing as control objects in said second set of control objects by selecting from all available affiliated system components those affiliated system components that should be displayed on said user interface.

40. *(previously presented)* The computer program product of claim 27, further comprising computer readable program code means for configuring affiliated system components for viewing as control objects in said second set of control objects by selecting from all available affiliated system components those affiliated system components that should be hidden from display on said user interface.

41. *(previously presented)* The graphical user interface of claim 1, further comprising means for providing proxy control options for controlling the one or more affiliated system components associated with the selected activity but pre-configured by the user to be hidden from display on the user interface.

42. *(previously presented)* The method of claim 13, further comprising providing proxy control options for controlling the one or more affiliated system components associated with the selected activity but pre-configured by the user to be hidden from display on the user interface.

43. *(previously presented)* The computer program product of claim 27, further comprising computer readable program code means for providing proxy control options for controlling the one or more affiliated system components associated with the selected activity but pre-configured by the user to be hidden from display on the user interface.